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FILE 'MEDLINE' ENTERED AT 15:10:50 ON 25 JUN 1998

=> s anion(W)exchange

L1 47592 ANION(W) EXCHANGE

=> s DNA and L1

L2 1794 DNA AND L1

=> s DNA(W)purificat?

L3 1202 DNA(W) PURIFICAT?

=> s L3 and L1

L4 21 L3 AND L1

=> d L4 1-21

L4 ANSWER 1 OF 21 CAPLUS COPYRIGHT 1998 ACS
AN 1997:230159 CAPLUS
TI **Anion-exchange plasmid DNA**
purification
AU Coffman, Jonathan L.; Eldering, Joyce E.; Boschetti, Egisto
CS BioSeptra Inc., Marlborough, MA, 01752, USA
SO Book of Abstracts, 213th ACS National Meeting, San Francisco, April
13-17 (1997), BIOC-093 Publisher: American Chemical Society,
Washington, D. C.
CODEN: 64AOAA
DT Conference; Meeting Abstract
LA English

L4 ANSWER 2 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 97187957 EMBASE
TI Accurate and sensitive quantitation of N7-methyldeoxyguanosine-3'-
monophosphate by 32P-postlabeling and storage-phosphor imaging.
AU Haque K.; Cooper D.P.; Van Delft J.H.M.; Lee S.M.; Povey A.C.
CS A.C. Povey, CRC Department of Carcinogenesis, Paterson Inst. for
Cancer Research, Christie Hospital NHS Trust, Manchester M20 9BX,
United Kingdom
SO Chemical Research in Toxicology, (1997) 10/6 (660-666).
Refs: 31
ISSN: 0893-228X CODEN: CRTOEC
CY United States
DT Journal
FS 016 Cancer
052 Toxicology
LA English
SL English

L4 ANSWER 3 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 97031957 EMBASE
TI Synthesis and characterization of composite nucleic acids containing
2',5'-oligoriboadenylate linked to antisense DNA.
AU Xiao W.; Player M.R; Li G.; Zhang W.; Lesiak K.; Torrence P.F.
CS P.F. Torrence, Section on Biomedical Chemistry, Lab Medicinal
Chemistry, Bldg 8, Natl Inst Diabet Digest Kidney Dis, Bethesda, MD
20892-0805, United States
SO Antisense and Nucleic Acid Drug Development, (1996) 6/4 (247-258).
Refs: 21
ISSN: 1087-2906 CODEN: ANADF5
CY United States
DT Journal
FS 022 Human Genetics
029 Clinical Biochemistry
030 Pharmacology
039 Pharmacy
037 Drug Literature Index
LA English
SL English

L4 ANSWER 4 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 96086374 EMBASE
TI Separation of 'uncharged' oligodeoxynucleotide analogs by
anion-exchange chromatography at high pH.
AU Schmidt J.G.; Nielsen P.E.; Orgel L.E.
CS Salk Inst. for Biological Studies, P.O. Box 85800, San Diego, CA
92186-5800, United States
SO Analytical Biochemistry, (1996) 235/2 (239-241).
ISSN: 0003-2697 CODEN: ANBCA2
CY United States
DT Journal
FS 029 Clinical Biochemistry
LA English

L4 ANSWER 5 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 96050169 EMBASE
TI Synthesis and purification in a single column on a high-throughput
automated oligonucleotide production system.
AU Baier J.; Kaufman J.; Mason G.; Wang J.; Wright P.; Andrus A.
CS Perkin-Elmer/Applied Biosystems Div., 850 Lincoln Centre Dr., Foster
City, CA 94404, United States
SO BioTechniques, (1996) 20/2 (298-303).
ISSN: 0736-6205 CODEN: BTNQDO
CY United States
DT Journal
FS 022 Human Genetics
029 Clinical Biochemistry
LA English
SL English

L4 ANSWER 6 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 95368359 EMBASE
TI Large-scale purification of plasmid DNA for biophysical and
molecular biology studies.
AU Baumann C.G.; Bloomfield V.A.
CS 140 Gortner Labs, Department of Biochemistry, University of
Minnesota, 1479 Gortner Avenue, St. Paul, MN 55108, United States
SO BioTechniques, (1995) 19/6 (884-890).
ISSN: 0736-6205 CODEN: BTNQDO
CY United States
DT Journal
FS 029 Clinical Biochemistry
LA English

L4 ANSWER 7 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 95240185 EMBASE
TI **Anion-exchange** HPLC analysis of biotinylated
oligonucleotides.
AU De Bellis G.; Invernizzi L.; Debernardi S.; Pergolizzi R.; Luzzana
M.
CS Consiglio Nazionale delle Ricerche, Ist. Tecnologie Biomediche
Avanzate, L.I.T.A., Via Fratelli Cervi 93, 20090 Segrate, Italy
SO BioTechniques, (1995) 19/2 (230+232-234).
ISSN: 0736-6205 CODEN: BTNQDO
CY United States
DT Journal
FS 029 Clinical Biochemistry
LA English
SL English

L4 ANSWER 8 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 94352477 EMBASE
TI Optimization of 32P-postlabelling assays for the quantitation of
O6-methyl and N7-methyldeoxyguanosine-3'-monophosphates in human
DNA.
AU Haque K.; Cooper D.P.; Povey A.C.
CS Cancer Research Campaign, Department of Carcinogenesis, Paterson
Institute Cancer Research, Manchester M20 9BX, United Kingdom
SO CARCINOGENESIS, (1994) 15/11 (2485-2490).
ISSN: 0143-3334 CODEN: CRNGDP
CY United Kingdom
DT Journal
FS 016 Cancer
022 Human Genetics
LA English
SL English

L4 ANSWER 9 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 93344756 EMBASE
TI Construction of a cDNA encoding the multifunctional animal fatty
acid synthase and expression in Spodoptera frugiperda cells using
baculoviral vectors.
AU Joshi A.K.; Smith S.
CS Children's Hospital, Oakland Research Institute, 747 Fifty-second
Street, Oakland, CA 94609, United States
SO BIOCHEM. J., (1993) 296/1 (143-149).
ISSN: 0264-6021 CODEN: BIJOAK
CY United Kingdom
DT Journal
FS 029 Clinical Biochemistry
LA English
SL English

L4 ANSWER 10 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 93163417 EMBASE
TI Rhizobium fredii and Rhizobium meliloti produce 3-deoxy-D-manno-2-
octulosonic acid-containing polysaccharides that are structurally
analogous to group II K antigens (capsular polysaccharides) found in
Escherichia coli.
AU Reuhs B.L.; Carlson R.W.; Kim J.S.
CS Complex Carbohydrate Research Center, University of Georgia, 220
Riverbend Road, Athens, GA 30602-4712, United States
SO J. BACTERIOL., (1993) 175/11 (3570-3580).
ISSN: 0021-9193 CODEN: JOBAAY
CY United States
DT Journal
FS 004 Microbiology
LA English
SL English

L4 ANSWER 11 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 93155611 EMBASE
TI High-resolution liquid chromatography of DNA fragments on non-porous
poly(styrene-divinylbenzene) particles.
AU Huber C.G.; Oefner P.J.; Preuss E.; Bonn G.K.
CS Institute of Radiochemistry, Leopold-Franzens-University, Innrain
52a, A-6020 Innsbruck, Austria
SO NUCLEIC ACIDS RES., (1993) 21/5 (1061-1066).
ISSN: 0305-1048 CODEN: NARHAD
CY United Kingdom
DT Journal
FS 022 Human Genetics
025 Hematology
LA English
SL English

L4 ANSWER 12 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 93152924 EMBASE
TI Purification of forensic specimens for the polymerase chain reaction
(PCR) analysis.
AU Akane A.; Shiono H.; Matsubara K.; Nakamura H.; Hasegawa M.; Kagawa
M.
CS Department of Legal Medicine, Shimane Medical University, Izumo 693,
Japan
SO J. FORENSIC SCI., (1993) 38/3 (691-701).
ISSN: 0022-1198 CODEN: JFSCAS
CY United States
DT Journal
FS 049 Forensic Science Abstracts
LA English
SL English

L4 ANSWER 13 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 93107846 EMBASE
TI Cesium chloride or column preparation? An electron microscopical
view of plasmid preparations.
AU Schleef M.; Heimann P.
CS Department de Biologie Moleculaire, Institut Pasteur, 25, rue du Dr.
Roux, 75724 Paris Cedex 15, France
SO BIOTECHNIQUES, (1993) 14/4 (544).
ISSN: 0736-6205 CODEN: BTNQDO
CY United States
DT Journal
FS 004 Microbiology
LA English

L4 ANSWER 14 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 92225264 EMBASE
TI Prediction of oligodeoxyribonucleotides eluting salt conditions on
anion exchange column.
AU Vaerman J.L.; Moureau N.; Larondelle U.; Martiat E.; Philippe M.
CS Lab de Biologie Moleculaire Clinique, Cliniques St Luc, Universite
Catholique de Louvain, Clos Chapelle aux Champs 30/3046, 1200
Bruxelles, Belgium
SO NUCLEIC ACIDS RES., (1992) 20/13 (3522).
ISSN: 0305-1048 CODEN: NARHAD
CY United Kingdom
DT Journal
FS 022 Human Genetics
029 Clinical Biochemistry
LA English

L4 ANSWER 15 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 91344885 EMBASE
TI Fast and simple **anion-exchange** chromatography
for large-scale purification of self-complementary oligonucleotides.
AU Banerjee A.; Bose H.S.; Roy K.B.
CS Centre for Biotechnology, Jawaharlal Nehru University, New Delhi 110
067, India
SO BIOTECHNIQUES, (1991) 11/5 (650-652+653+656).
ISSN: 0736-6205 CODEN: BTNQDO
CY United States
DT Journal
FS 004 Microbiology
LA English
SL English

L4 ANSWER 16 OF 21 BIOSIS COPYRIGHT 1998 BIOSIS
AN 97:352782 BIOSIS
DN 99651985
TI Accurate and sensitive quantitation of N7-methyldeoxyguanosine-3'-
monophosphate by 32P-postlabeling and storage-phosphor imaging.
AU Haque K; Cooper D P; Van Delft J H M; Lee S M; Povey A C
CS Cancer Res. Campaign, Dep. Carcinogenesis, Paterson Inst. Cancer
Res., Christie Hosp. NHS Trust, Manchester M20 9BX, UK
SO Chemical Research in Toxicology 10 (6). 1997. 660-666. ISSN:
0893-228X
LA English

L4 ANSWER 17 OF 21 BIOSIS COPYRIGHT 1998 BIOSIS
AN 97:276828 BIOSIS
DN 99576031
TI Effects of lipopolysaccharides on liposome-mediated transfection and
the consequence for DNA preparation for gene therapy.
AU Weber M; Moeller K; Welzeck M; Schorr J
CS QIAGEN GmbH, Max-Volmer-Strasse 4, D-40724 Hilden, Germany
SO Felgner, P. L., et al. (Ed.). ACS Conference Proceedings Series:
Artificial self-assembling systems for gene delivery; Two Conferences
by the Cambridge Healthtech Institute, Wakefield, Massachusetts, USA,
September 28-29, 1995 and Washington, D.C., USA, October 10-11, 1995.
vi+200p. American Chemical Society: Washington, DC, USA. 0 (0).
1996. 56-62. ISBN: 0-8412-3415-9
DT Book; Conference
LA English

L4 ANSWER 18 OF 21 BIOSIS COPYRIGHT 1998 BIOSIS

AN 97:197071 BIOSIS

DN 99496274

TI **Anion-exchange** plasmid **DNA**
purification.

AU Coffman J L; Eldering J E; Boschetti E

CS BioSeptra Inc., 111 Locke Drive, Marlborough, MA 01752, USA

SO 213th National Meeting of the American Chemical Society, San
Francisco, California, USA, April 13-17, 1997. Abstracts of Papers
American Chemical Society 213 (1-3). 1997. BIOT 93. ISSN: 0065-7727

DT Conference

LA English

L4 ANSWER 19 OF 21 BIOSIS COPYRIGHT 1998 BIOSIS
AN 94:256354 BIOSIS
DN 97269354
TI Purification, molecular cloning and heterologous expression of a
glutathione S-transferase from the Australian sheep blowfly (*Lucilia
cuprina*).
AU Board P; Russell R J; Marano R J; Oakeshott J G
CS Molecular Genetics Group, John Curtin Sch. Med. Res., Aust. National
Univ., Canberra, AUL
SO Biochemical Journal 299 (2). 1994. 425-430. ISSN: 0264-6021
LA English

L4 ANSWER 20 OF 21 BIOSIS COPYRIGHT 1998 BIOSIS
AN 92:425173 BIOSIS
DN BR43:69323
TI SEPARATION OF SYNTHETIC PHOSPHOROTHIOATE OLIGODEOXYNUCLEOTIDES FROM
THEIR OXYGENATED PHOSPHODIESTER DEFECT SPECIES BY STRONG-
ANION-EXCHANGE HIGH-PERFORMANCE LIQUID
CHROMATOGRAPHY.
AU BERGOT B J; EGAN W
CS THERAPEUTICS GROUP, APPLIED BIOSYSTEMS, INC., FOSTER CITY, CALIF.
94404.
SO ELEVENTH INTERNATIONAL SYMPOSIUM ON HIGH-PERFORMANCE LIQUID
CHROMATOGRAPHY OF PROTEINS, PEPTIDES AND POLYNUCLEOTIDES, WASHINGTON,
D.C., USA, OCTOBER 20-23, 1991. J CHROMATOGR 599 (1-2). 1992. 35-42.
CODEN: JOCRAM ISSN: 0021-9673
DT Conference
LA English

L4 ANSWER 21 OF 21 MEDLINE
AN 97351890 MEDLINE
DN 97351890
TI Accurate and sensitive quantitation of N7-methyldeoxyguanosine-3'-
monophosphate by 32P-postlabeling and storage-phosphor imaging.
AU Haque K; Cooper D P; van Delft J H; Lee S M; Povey A C
CS Cancer Research Campaign Department of Carcinogenesis and Medical
Oncology, Paterson Institute for Cancer Research, Christie Hospital
NHS Trust, Manchester, U.K.
SO CHEMICAL RESEARCH IN TOXICOLOGY, (1997 Jun) 10 (6) 660-6.
Journal code: A5X. ISSN: 0893-228X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199710
EW 19971004

=> d his

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FILE 'CAPLUS, CAOLD, EMBASE, BIOSIS, MEDLINE' ENTERED AT 15:10:50
ON 25 JUN 1998

L1	47592 S ANION(W) EXCHANGE
L2	1794 S DNA AND L1
L3	1202 S DNA(W) PURIFICAT?
L4	21 S L3 AND L1

=> d L4 1,5,6,12 bib,ab,kwic

L4 ANSWER 1 OF 21 CAPLUS COPYRIGHT 1998 ACS
AN 1997:230159 CAPLUS
TI **Anion-exchange plasmid DNA
purification**
AU Coffman, Jonathan L.; Eldering, Joyce E.; Boschetti, Egisto
CS BioSeptra Inc., Marlborough, MA, 01752, USA
SO Book of Abstracts, 213th ACS National Meeting, San Francisco, April
13-17 (1997), BIOC-093 Publisher: American Chemical Society,
Washington, D. C.
CODEN: 64AOAA
DT Conference; Meeting Abstract
LA English
AB A new kind of composite chromatog. media with unique characteristics
allowing more effective large scale chromatog. is investigated for
purifn. of plasmids. This media is a composite of a porous ceramic
skeleton whose pores are filled with a polyacrylamide gel. For
plasmid DNA, it appears that the particle acts as a pellicular
resin, where binding occurs on the polyacrylamide gel on the surface
of the particle. This allows rapid mass transfer, as no
intraparticle mass transfer was required. The capacity of this
media is quite high compared to other conventional resins, despite
the use of only the exterior of the particle. Buffer conditions
were investigated with various plasmids, including pH, buffer type,
counter-ion valance, and co-ion valance. Conditions were discovered
that allowed 90% recovery of the plasmids up to 10kbp, resoln.
between some plasmid DNA variants and clearance of the genomic DNA.
TI **Anion-exchange plasmid DNA
purification**

L4 ANSWER 5 OF 21 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
 AN 96050169 EMBASE
 TI Synthesis and purification in a single column on a high-throughput
 automated oligonucleotide production system.
 AU Baier J.; Kaufman J.; Mason G.; Wang J.; Wright P.; Andrus A.
 CS Perkin-Elmer/Applied Biosystems Div., 850 Lincoln Centre Dr., Foster
 City, CA 94404, United States
 SO BioTechniques, (1996) 20/2 (298-303).
 ISSN: 0736-6205 CODEN: BTNQDO
 CY United States
 DT Journal
 FS 022 Human Genetics
 029 Clinical Biochemistry
 LA English
 SL English
 AB A new oligonucleotide production system, the ABI 3948, was developed
 to automate the entire process: sequence entry, synthesis, cleavage,
 deprotection, purification, quantitation, sample collection and data
 management. Up to 48 primer-length, high-purity oligonucleotides can
 be produced on the ABI 3948 in a 24-h period of unattended
 operation. Synthesis, cleavage and purification all occur within the
 unique polystyrene-based OneStep.RTM. column. Oligonucleotides,
 analyzed by MicroGel(TM) capillary electrophoresis, **anion-**
exchange HPLC, polyacrylamide gel electrophoresis and
 enzymatic digestion/HPLC routinely demonstrate >90% product purity.
 Stringent PCR and automated fluorescent sequencing and genetic
 analysis experiments show the benefits of combined synthesis and
 purification of oligonucleotides.
 AB . . . unattended operation. Synthesis, cleavage and purification
 all occur within the unique polystyrene-based OneStep.RTM. column.
 Oligonucleotides, analyzed by MicroGel(TM) capillary
 electrophoresis, **anion-exchange** HPLC,
 polyacrylamide gel electrophoresis and enzymatic digestion/HPLC
 routinely demonstrate >90% product purity. Stringent PCR and
 automated fluorescent sequencing and genetic. . .
 CT EMTAGS: automation, computers and data processing (0530); apparatus,
 equipment and supplies (0510); article (0060)
 *automation
 *dna synthesis
 *dna purification
 *computer program
 instrument
 capillary electrophoresis
 anion exchange chromatography
 high performance liquid chromatography
 polyacrylamide gel electrophoresis
 polymerase chain reaction
 article
 *dna
 *oligonucleotide